Non-maintained EM spot light
Data Sheet
For Series: OT-ESP8-LF serial
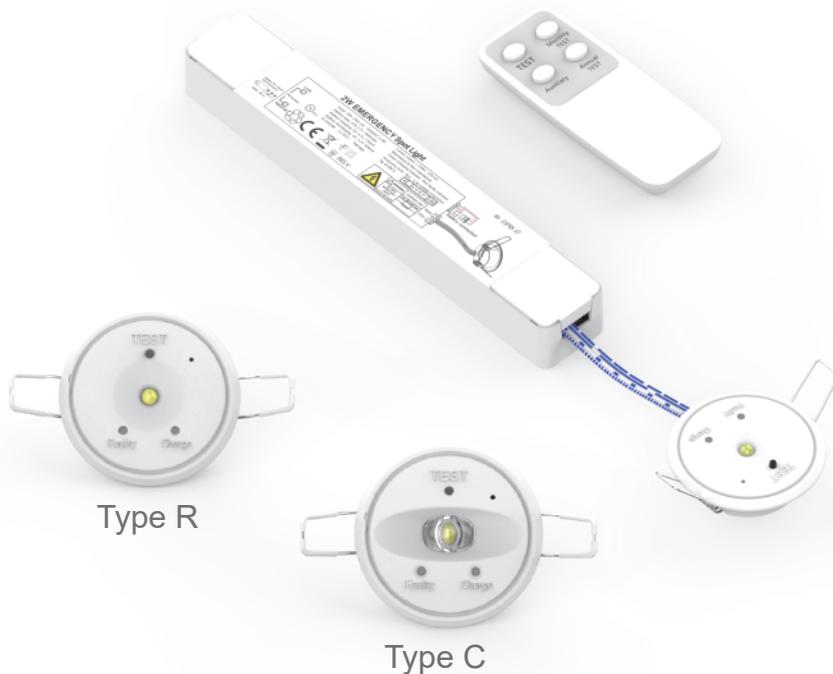
Type R

Type C

OTC IND CO., LTD

CE RoHS

OTC
Original technology
Creating the life

Dear partners,
* Thanks for choosing OTC emergency devices for your projects.
OTC always pursue high quality, steady quality products, competitive price and one-stop customer service, and offer enjoyable installation experience.

* All the OTC emergency device with 5 years quality guarantee (Battery 2 years) . If any doubts/ questions, please contact OTC project support team directly by email support@otcind.net . You will get solutions in 7~24 hours rapidly.

Contents

1 Security related information

• Installation should be carried out in accordance with the latest edition of the I.E.E. Wiring regulations and taking into consideration the latest building regulations.

• Ensure that all electrical connections are tight with no loose strands, including factory made connections.

• Ensure there is adequate free air circulation of at least 100mm around the luminaire. It is the installer's responsibility to consider fire risk and take appropriate precautions.

•A seperate enclosure may be required if this unit is to be used in dusty and wet environments.

Q.C. date label, installation in an improper working environment or installation not according to the current edition of the I.E.E. Wiring Regulations . The guarantee is also invalidated if the luminaire has been I.R. tested. Should this product fail during the guarantee period it will be replaced free of charge, subject to correct installation and return of the faulty unit. We do not accept responsibility for any installation costs associated with the replacement of this product.Your statutory rights are not affected. We reserve the right to alter specifications without prior notice.

2 Packing list
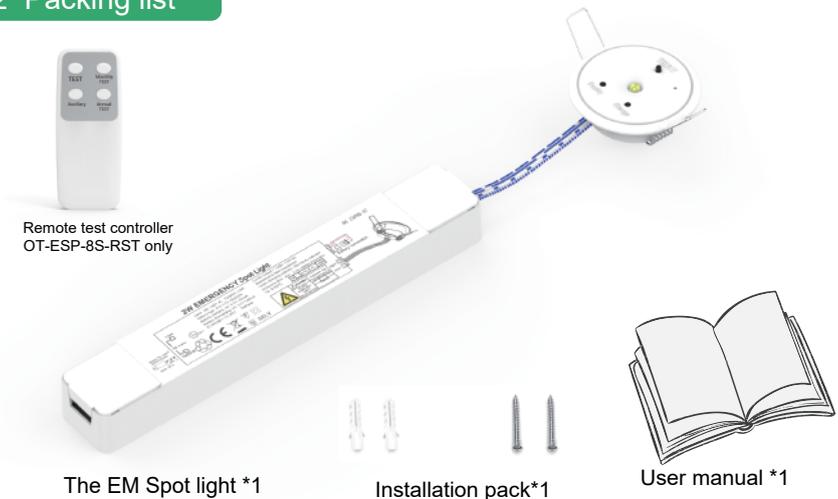
Remote test controller
OT-ESP-8S-RST only

The EM Spot light *1

Installation pack*1

User manual *1

3 Basic Parmeters

Model	Art Nr. OT-ESP8S-***_ Type C/R	
	ST	RST
Material	PC case	
Dimension of driver	L198*W32*H22mm	
Dimension of LED lamp	D 56mm * H 18mm , Cut hole 40~45mm	
Color Rendering Index	>80	
Degree of protection	IP20	
Input Voltage	AC200-240V 50/60HZ	
Emergency mode	Maintained & non-maintained in one (See Page 5)	
Input Power	2.0W if maintained / 1.5W if maintained mode	
Power factor	>0.5	
LED lifespan	50,000 hrs	
Standard	60598-2-22:2021	
Emergency change over	<0.5S	
Emergency Pack	3.2V 1.6Ah LiFePO4 pack	
Emergency time	3 Hours	
Test	Manual test + self test	Manual+ Self+ Remote test
Charging indicator	Green	
Faulty indicator	RED	
Emergency power	1.2W	
Luminous Flux(EM)	150LM	

198

32

②

Ø56

Cut out D40~45mm

22

Ø56

④

⑤

OT-ESP8S-C

18

OT-ESP8S-R

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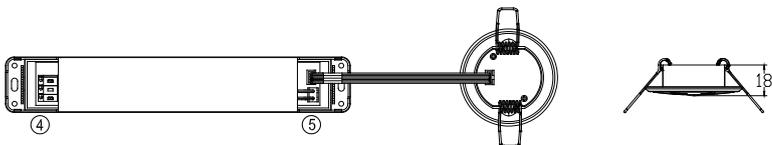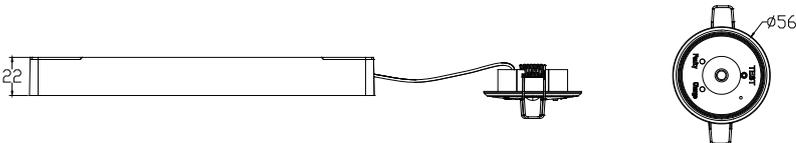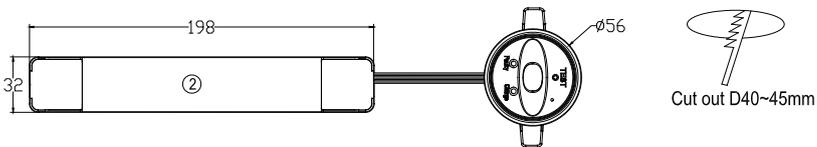
④ test button

Maintained & Non-maintained work mode

The OT-ESP8S series can work both in maintained and non-maintained mode.

a) The OT-ESP8S was preset Non-Maintained mode.
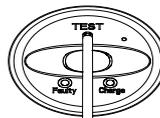
Press the ④ test button constantly for 11 seconds

Methed 2

Methed 1

b) AC power on

Methed 1: Press the ④ test button constantly for 11 seconds

Methed 2: Press the "Auxiliary" switch on remote test controller for 6 seconds.

The OT-ESP8S will change the Emergency work mode.

5.1 Testing (If no failure)

5.1.1. Manual function test.
OT–ESP8S–ST/RST: Active the ④ test button.
OT–ESP8S–RST:Press "TEST" switch on controller.

a) The ② Charging indicator OFF.
b) The Emergency function ON.
c) The test will cut off the mains

5.1.2 Monthly test.
OT–ESP8S–ST/RST:Active the ④ test button for 5 second;
OT–ESP8S–RST:Press "Monthly TEST" switch on controller.
or the lamp installed every 30 days.

a) The ② Charging indicator will flash in 1HZ for 128s;
b) The Emergency function ON;
c) The test finished and back to standby mode.

5.1.3 Annual test.
OT–ESP8S–ST/RST:Active the ④ test button for 7 second;
OT–ESP8S–RST:Press "Annual TEST" switch on controller.
or the lamp installed every 180 days.

a) The ② Charging indicator will flash in 2HZ for 3hours;
b) The charging will be cut off & emergency function ON 3hours;
c) The lamp back to standby mode after test.

① LED CHIP　　　④ test button

⑤ IR Sensor

TEST

Faulty　　Charge

③ faulty indicator　　② Charging indicator

TEST　Monthly TEST
Auxiliary　Annual TEST
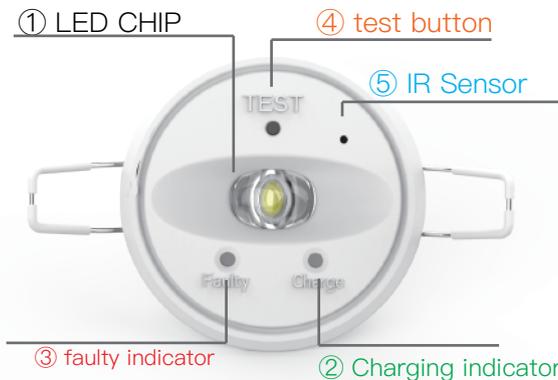
Remote test controller
OT-ESP-8RST only

5.2 Testing (If any failure)

5.2.1 Battery failure: ● ● ● ● ●
Monitored constantly. The ③ faulty indicator will falsh in 1 Hz if the battery failure any time.

5.2.2 LED load failure: ● ● ● ● ● ● ● ● ●
If press test button, or the luminary self–monthly test. The ③ faulty indicator will falsh in 2 Hz if LED load failure.

5.2.3 Duration failure: ▬▬▬▬▬▬▬▬▬
Only in Annual self–test. The ③ faulty indicator will turn on constantly if the Battery can not last 3 hours

6 Emergency control logic

The emergency function control logic

Operation	Charging indicator		Faulty Indicator (RED)		Emergency LED Maintained mode		Emergency LED Non-Maintained	
Time line (Second)	1 S	1 S	1 S	1 S	1 S	1 S	1 S	1 S
Normal charging	●		OFF		Constantly on		OFF	
Normal full charged	Constantly on		OFF		Constantly on		OFF	
Normal AC Failure	OFF		OFF		Constantly on		Constantly on	
Manual test	OFF		OFF		Constantly on		Constantly on	
Monthly self-test	●	●	OFF		Constantly on		Constantly on	
Annual self-test	● ●	● ●	OFF		Constantly on		Constantly on	
Battery circuit failure	OFF		●	●	Constantly on		OFF	
Light source failure	Constantly on		● ●	● ●	OFF		OFF	
Duration test failure	Constantly on		Constantly on		Constantly on		OFF	

Before   **After**

No Key switch, No Harry, No ladders
Safe / Easy / Convenient
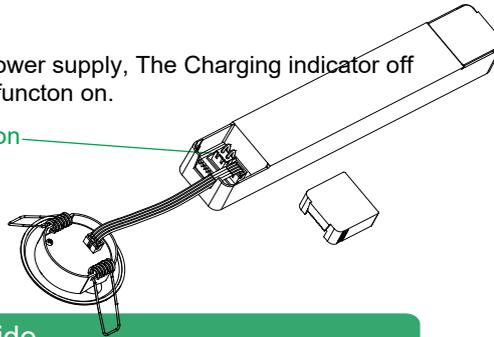
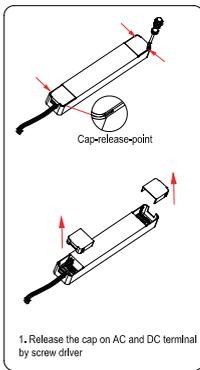# Emergency function test before installation

1. Connect the AC cable .
   -- The charging indicator off,
   -- The Faulty indicator flash in 1hz.

2. ①Battery plug on.
   -- The charging indicator on,
   -- The Faulty indicator stop flashing.

3. Press the test button, The charging indicator off, and emergency function actived.

4. Cut off the AC power supply, The Charging indicator off and emergency functon on.
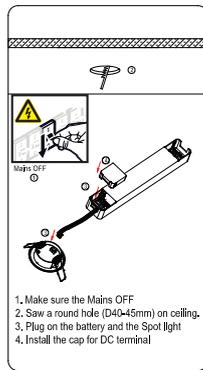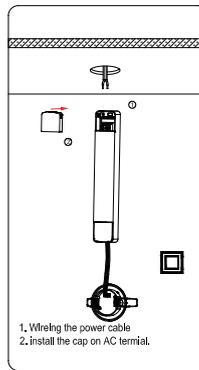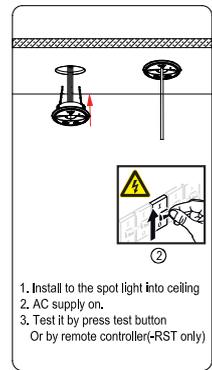
①Battery plug on

8 Installation guide

Installation

STEP 1
1. Release the cap on AC and DC terminal by screw driver

Cap release point

STEP 1
1. Make sure the Mains OFF
2. Saw a round hole (D40-45mm) on ceiling.
3. Plug on the battery and the Spot light
4. Install the cap for DC terminal

Mains OFF

STEP 2
1. Wireing the power cable
2. install the cap on AC termial.

STEP 3
1. Install to the spot light into ceiling
2. AC supply on.
3. Test it by press test button
   Or by remote controller(-RST only)

INNOVATING YOUR PROJECTS

Luminaire emergency inspection record

month	Test	First Year		Second Year		Third Year		Fourth Year		Fifth Year	
		Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date
1	Functional										
2	Functional										
3	Functional										
4	Functional										
5	Functional										
6	1 hour										
7	Functional										
8	Functional										
9	Functional										
10	Functional										
11	Functional										
12	3 hours										

Installed By:

Installed Date:

LuminaireNO.:

Luminaire Locaton:

Contact details: